

REGULATORY GATE SYSTEM FOR PRODUCT DROP OFF OF VIBRATORY CONVEYORS

ABSTRACT OF THE DISCLOSURE

An improved method and apparatus for distributing a food product, such as potato chips, which provides a laminar flow of product to the weighers. The laminar flow of product is provided using a gate which regulates the amount of product dropped through the distribution conveyor to an amount that is equivalent to the flow rate created by the set of weighers/bagmakers associated with that gate. This results in some of the product being deposited through the gate while the remainder of the product bypasses the gate for deposit in a subsequent gate.